



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
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DATA MATRIX

Date Feb. 11, 2019	EPA Reg No./File Symbol 94145-	Page 1 of 35
Applicant's/Registrant's Name & Address INMES, LLC 266 Reservation Road, F#202 Marina, CA 93933	Product INMES S-Metolachlor Technical	
Ingredient: S-metolachlor (CAS No. 87392-12-9; Chemical Code: 108800)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
PRODUCT SPECIFIC DATA REQUIREMENTS					
830.1550	Product identity and composition	50750401	INMES, LLC	OWN	
830.1600	Description of Materials Used to Produce the Product	50750401	INMES, LLC	OWN	
830.1620	Description of the Production Process	50750401	INMES, LLC	OWN	
830.1650	Description of the Formulation Process				Not applicable ¹
830.1670	Discussion of Formation of Impurities	50750401	INMES, LLC	OWN	
830.1700	Preliminary Analysis	50750403	INMES, LLC	OWN	
		50750402	INMES, LLC	OWN	
830.1750	Certified Limits	50750401	INMES, LLC	OWN	
830.1800	Enforcement Analytical Method	50750403	INMES, LLC	OWN	
830.6302	Color	50750404	INMES, LLC	OWN	
830.6303	Physical State	50750404	INMES, LLC	OWN	
830.6304	Odor	50750404	INMES, LLC	OWN	
830.6313	Stability to Normal and Elevated Temperatures, Metals and Metal Ions	50750405	INMES, LLC	OWN	
830.6314	Oxidation/Reduction: Chemical Incompatibility	50750406	INMES, LLC	OWN	
830.6315	Flammability	50750407	INMES, LLC	OWN	
830.6316	Explosibility	50750417	INMES, LLC	OWN	Waiver ²
830.6317	Storage Stability	50750416	INMES, LLC	OWN	
830.6319	Miscibility	50750417	INMES, LLC	OWN	Not applicable ³
830.6320	Corrosion Characteristics	50750416	INMES, LLC	OWN	

Signature

Name and Title

Ann M. Tillman, PhD | Agent

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Ingredient: S-metolachlor (CAS No. 87392-12-9; Chemical Code: 108800)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6321	Dielectric Breakdown Voltage				Not required
830.7000	pH	50750408	INMES, LLC	OWN	
830.7050	UV/Visible Absorption	50750409	INMES, LLC	OWN	
830.7100	Viscosity	50750410	INMES, LLC	OWN	
830.7200	Melting Point/Melting Range	50750417	INMES, LLC	OWN/PL	
830.7220	Boiling Point/Boiling Range	50750411	INMES, LLC	OWN	
830.7300	Density/Relative Density/Bulk Density	50750412	INMES, LLC	OWN	
830.7370	Dissociation Constants in Water	50750417	INMES, LLC	OWN	Waiver ⁴
830.7520	Particle size, fiber length, and diameter distribution	50750417	INMES, LLC	OWN	Waiver ⁵
830.7550	Partition Coefficient (n-octanol/water), Shake Flask Method	50750413	INMES, LLC	OWN	
830.7560	Partition Coefficient (n-octanol/water), Generator Method				See 830.7550
830.7570	Partition Coefficient (n-octanol/water), Estimation by Liquid Chromatography				See 830.7550
830.7840	Water Solubility: Column Elution Method, Shake Flask Method	50750414	INMES, LLC	OWN	
830.7860	Water Solubility: Generator Column Method				See 830.7840
830.7950	Vapor Pressure	50750415	INMES, LLC	OWN	
870.1100	Acute oral toxicity – rat	43928915		OLD	See endnote ⁶
870.1200	Acute dermal toxicity – rat	43928916		OLD	See endnote ⁷

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Ingredient: S-metolachlor (CAS No. 87392-12-9; Chemical Code: 108800)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.1300	Acute inhalation toxicity – rat	43928917		OLD	See endnote ⁸
870.2400	Eye irritation	43928918		OLD	See endnote ⁹
870.2500	Skin irritation	43928919		OLD	See endnote ¹⁰
870.2600	Skin sensitization	43928920		OLD	See endnote ¹¹
Generic Data Requirements					
850.2100	Acute Avian Oral Toxicity	43928906 43928907 50531502	Syngenta Crop Protection, LLC	OLD OLD PAY	See endnote ¹²
850.2200	Acute Avian Dietary Toxicity	43928908 43928909		OLD OLD	See endnote ¹³
850.2400	Wild Mammal Toxicity				Not required
850.2300	Avian Reproductive Toxicity	44995901 44015602		OLD OLD	See endnote ¹⁴
850.2500	Simulated or Actual Field Testing				Not required
850.1075	Freshwater Fish Toxicity	43928910 43928911 44929501 44929502 44931702		OLD OLD OLD OLD OLD	See endnote ¹⁵

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INMES, LLC
266 Reservation Road, F#202
Marina, CA 93933

Product

INMES S-Metolachlor Technical

Ingredient: S-metolachlor (CAS No. 87392-12-9; Chemical Code: 108800)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.1010	Freshwater Invertebrate Toxicity	43928912 44929503 44931703		OLD OLD OLD	See endnote ¹⁶
850.1025, 850.1035, 850.1045, 850.1055, 850.1075	Acute Toxicity Estuarine and Marine Organisms	43487102 43487103 46829506	Syngenta Crop Protection, LLC	OLD OLD PAY	See endnote ¹⁷
850.1300	Aquatic Invertebrate Life Cycle (Freshwater)	46829507	Syngenta Crop Protection, LLC	PAY	See endnote ¹⁸
850.1350	Aquatic Invertebrate Life Cycle (Saltwater)	44995902		OLD	See endnote ¹⁹
850.1400	Fish Early Life Stage (Freshwater)	44995903		OLD	See endnote ²⁰
850.1400	Fish Early Life Stage (Saltwater)	43044602		OLD	See endnote ²¹
850.1500	Life Cycle Fish				Not required
850.1710, 850.1730, 850.1850	Aquatic Organisms Bioavailability, Biomagnification, Toxicity	41154201		OLD	See endnote ²²
850.1950	Simulated or Actual Field Testing for Aquatic Organisms				Not required
850.1735	Whole Sediment: Acute Freshwater Invertebrates				Not required
850.1740	Whole Sediment: Acute Marine Invertebrates				Not required
N/A	Whole Sediment: Chronic Freshwater Invertebrates	49579501	Syngenta Crop Protection, LLC	PAY	See endnote ²³
850.3020	Honey Bee Acute Contact Toxicity	44718402		OLD	See endnote ²⁴
OECD 213	Honey Bee Acute Oral Toxicity	44718402		OLD	See endnote ²⁵
SS-1323	Honey Bee Larvae Acute Oral Toxicity	49930003	Syngenta Crop Protection, LLC	PAY	

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Ingredient: S-metolachlor (CAS No. 87392-12-9; Chemical Code: 108800)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
SS-1254	Honey Bee Adult Chronic Oral Toxicity	49930004	Syngenta Crop Protection, LLC	PAY	
SS-1324	Honey Bee Larvae Chronic Oral Toxicity	50194201	Syngenta Crop Protection, LLC	PAY	
SS-1155	Residues in Pollen and Nectar/Field Residue Analysis				Reserved
SS-1315	Semi Field Testing for Pollinators				Reserved
850.3030	Honeybee Toxicity of Residues on Foliage				Reserved
850.3040	Field Testing for Pollinators				Reserved
870.6100	Delayed Neurotoxicity (Acute) – Hen				Not required
870.6200	Acute Neurotoxicity – Rat				Not required ²⁶
870.3100	90-Day Oral: Rodent	43928923		OLD	See endnote ²⁷
870.3150	90-Day Oral: Non-Rodent	43928922		OLD	See endnote ²⁸
870.3200	21/28-Day Dermal Toxicity	41833101		OLD	See endnote ²⁹
870.3250	90-Day Dermal Toxicity				Not required
870.3465	90-Day Inhalation Toxicity				Not required
870.6100	28-Day Delayed Neurotoxicity Hen				Not required
870.6200	90-Day Neurotoxicity				Not required ³⁰
870.4100	Chronic Oral Rodent	00129377		OLD	See endnote ³¹
870.4200	Carcinogenicity	00129377 00117597		OLD OLD	See endnote ³²

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870.3700	Reproduction/Developmental Toxicity Screening Test	43928924 43928925		OLD OLD	See endnote ³³
870.3800	2-Generation Reproduction: Rat	00080897		OLD	See endnote ³⁴
870.6300	Developmental Neurotoxicity Study				Not required
870.5100	Bacterial Reverse Mutation Test	43928927		OLD	See endnote ³⁵
870.5300, 870.5375	<i>In vitro</i> Mammalian Cell Assay	00158929		OLD	See endnote ³⁶
870.5385, 870.5395, 870.5450, 870.5550	<i>In vivo</i> Cytogenetics and Other Effects	43928926 43928928		OLD OLD	See endnote ³⁷
870.7485	Metabolism and Pharmacokinetics	44491401 44491402		OLD OLD	See endnote ³⁸
870.7200	Companion Animal Safety				Not required
870.7600	Dermal Penetration				Not required
870.7800	Immunotoxicity	48783301	Syngenta Crop Protection, LLC	PAY	See endnote ³⁹

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Product

INMES S-Metolachlor Technical

Ingredient: S-metolachlor (CAS No. 87392-12-9; Chemical Code: 108800)

875.1100	Dermal Exposure – Outdoor	46634101	Agricultural Handler Exposure TF	PAY	
		46634102	Agricultural Handler Exposure TF	PAY	
		46634104	Agricultural Handler Exposure TF	PAY	
		46634105	Agricultural Handler Exposure TF	PAY	
		46634106	Agricultural Handler Exposure TF	PAY	
		46763701	Agricultural Handler Exposure TF	PAY	
		46763702	Agricultural Handler Exposure TF	PAY	
		47172401	Agricultural Handler Exposure TF	PAY	
		47172402	Agricultural Handler Exposure TF	PAY	
		47172403	Agricultural Handler Exposure TF	PAY	
		47172404	Agricultural Handler Exposure TF	PAY	
		47172405	Agricultural Handler Exposure TF	PAY	
		47172406	Agricultural Handler Exposure TF	PAY	
		47212801	Agricultural Handler Exposure TF	PAY	
		47212802	Agricultural Handler Exposure TF	PAY	
		47212803	Agricultural Handler Exposure TF	PAY	
		47212804	Agricultural Handler Exposure TF	PAY	
		47212805	Agricultural Handler Exposure TF	PAY	
		47212806	Agricultural Handler Exposure TF	PAY	
		47212807	Agricultural Handler Exposure TF	PAY	
		47212808	Agricultural Handler Exposure TF	PAY	
		47212809	Agricultural Handler Exposure TF	PAY	
		47259801	Agricultural Handler Exposure TF	PAY	
		47309201	Agricultural Handler Exposure TF	PAY	

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INMES S-Metolachlor Technical

Ingredient: S-metolachlor (CAS No. 87392-12-9; Chemical Code: 108800)

875.1100 (cont.)	Dermal Exposure – Outdoor (cont.)	47309202	Agricultural Handler Exposure TF	PAY	
		47309203	Agricultural Handler Exposure TF	PAY	
		47309204	Agricultural Handler Exposure TF	PAY	
		47309205	Agricultural Handler Exposure TF	PAY	
		47309206	Agricultural Handler Exposure TF	PAY	
		47348701	Agricultural Handler Exposure TF	PAY	
		47714401	Agricultural Handler Exposure TF	PAY	
		47714402	Agricultural Handler Exposure TF	PAY	
		47947801	Agricultural Handler Exposure TF	PAY	
		47947802	Agricultural Handler Exposure TF	PAY	
		47947803	Agricultural Handler Exposure TF	PAY	
		48164901	Agricultural Handler Exposure TF	PAY	
		48200401	Agricultural Handler Exposure TF	PAY	
		48200402	Agricultural Handler Exposure TF	PAY	
		48200403	Agricultural Handler Exposure TF	PAY	
		48289601	Agricultural Handler Exposure TF	PAY	
		48289602	Agricultural Handler Exposure TF	PAY	
		48289604	Agricultural Handler Exposure TF	PAY	
		48289608	Agricultural Handler Exposure TF	PAY	
		48289609	Agricultural Handler Exposure TF	PAY	
		48289610	Agricultural Handler Exposure TF	PAY	
		48289611	Agricultural Handler Exposure TF	PAY	
		48289612	Agricultural Handler Exposure TF	PAY	
		48289613	Agricultural Handler Exposure TF	PAY	
		48289614	Agricultural Handler Exposure TF	PAY	

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INMES S-Metolachlor Technical

Ingredient: S-metolachlor (CAS No. 87392-12-9; Chemical Code: 108800)

875.1100 (cont.)	Dermal Exposure – Outdoor (cont.)	48289615	Agricultural Handler Exposure TF	PAY	
		48289616	Agricultural Handler Exposure TF	PAY	
		48303501	Agricultural Handler Exposure TF	PAY	
		48303502	Agricultural Handler Exposure TF	PAY	
		48303503	Agricultural Handler Exposure TF	PAY	
		48303504	Agricultural Handler Exposure TF	PAY	
		48313801	Agricultural Handler Exposure TF	PAY	
		48314201	Agricultural Handler Exposure TF	PAY	
		48326701	Agricultural Handler Exposure TF	PAY	
		48326801	Agricultural Handler Exposure TF	PAY	
		48706701	Agricultural Handler Exposure TF	PAY	
		48706702	Agricultural Handler Exposure TF	PAY	
		48706703	Agricultural Handler Exposure TF	PAY	
		48706704	Agricultural Handler Exposure TF	PAY	
		48713901	Agricultural Handler Exposure TF	PAY	
		48725101	Agricultural Handler Exposure TF	PAY	
		49173001	Agricultural Handler Exposure TF	PAY	
		49364301	Agricultural Handler Exposure TF	PAY	
		49462401	Agricultural Handler Exposure TF	PAY	
		49462402	Agricultural Handler Exposure TF	PAY	
		49462403	Agricultural Handler Exposure TF	PAY	
		49462404	Agricultural Handler Exposure TF	PAY	
		49462405	Agricultural Handler Exposure TF	PAY	
		49462406	Agricultural Handler Exposure TF	PAY	
		49466401	Agricultural Handler Exposure TF	PAY	

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INMES S-Metolachlor Technical

Ingredient: S-metolachlor (CAS No. 87392-12-9; Chemical Code: 108800)

875.1100 (cont.)	Dermal Exposure – Outdoor (cont.)	49472001	Agricultural Handler Exposure TF	PAY	
		49478601	Agricultural Handler Exposure TF	PAY	
		49478602	Agricultural Handler Exposure TF	PAY	
		49497201	Agricultural Handler Exposure TF	PAY	
		49609201	Agricultural Handler Exposure TF	PAY	
		49609202	Agricultural Handler Exposure TF	PAY	
		49609203	Agricultural Handler Exposure TF	PAY	
		49667001	Agricultural Handler Exposure TF	PAY	
		49667002	Agricultural Handler Exposure TF	PAY	
		49667003	Agricultural Handler Exposure TF	PAY	
		49680501	Agricultural Handler Exposure TF	PAY	
		49687701	Agricultural Handler Exposure TF	PAY	
		49711901	Agricultural Handler Exposure TF	PAY	
		49761201	Agricultural Handler Exposure TF	PAY	
		49761202	Agricultural Handler Exposure TF	PAY	
		49789001	Agricultural Handler Exposure TF	PAY	
		49841201	Agricultural Handler Exposure TF	PAY	
		49841202	Agricultural Handler Exposure TF	PAY	
		49841203	Agricultural Handler Exposure TF	PAY	
		49893001	Agricultural Handler Exposure TF	PAY	
		49893002	Agricultural Handler Exposure TF	PAY	
		50121601	Agricultural Handler Exposure TF	PAY	
		50121602	Agricultural Handler Exposure TF	PAY	
		50121603	Agricultural Handler Exposure TF	PAY	
		50121604	Agricultural Handler Exposure TF	PAY	

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.1100 (cont.)	Dermal Exposure – Outdoor (cont.)	50182201	Agricultural Handler Exposure TF	PAY	
		50217801	Agricultural Handler Exposure TF	PAY	
		50419301	Agricultural Handler Exposure TF	PAY	
		50419302	Agricultural Handler Exposure TF	PAY	
		50419303	Agricultural Handler Exposure TF	PAY	
		50426101	Agricultural Handler Exposure TF	PAY	
		50466001	Agricultural Handler Exposure TF	PAY	
		50466002	Agricultural Handler Exposure TF	PAY	
875.1200	Dermal Exposure - Indoor				Not required
875.1300	Inhalation Exposure – Outdoor				See 875.1100
875.1400	Inhalation Exposure - Indoor				Not required
875.1500	Biological Monitoring				See 875.1100
875.1600	Data Reporting and Calculations				See 875.1100
875.1700	Product Use Information				See 875.1100
875.2100	Dislodgeable Foliar Residue and Turf Transferable Residues				Not required ⁴⁰

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Applicant's/Registrant's Name & Address INMES, LLC 266 Reservation Road, F#202 Marina, CA 93933	Product INMES S-Metolachlor Technical	
Ingredient: S-metolachlor (CAS No. 87392-12-9; Chemical Code: 108800)		

875.2200	Soil Residue Dissipation	44802601		OLD	
		45005901		OLD	
		45005902		OLD	
		45005903		OLD	
		45005904		OLD	
		45005905		OLD	
		45005906		OLD	
		45005907		OLD	
		45005908		OLD	
		45005909		OLD	
		45005910		OLD	
		45005911		OLD	
		45138201		OLD	
		45138202		OLD	
		45175101		OLD	
		45175102		OLD	
		45175103		OLD	
		45175104		OLD	
		45175105		OLD	
		45191701		OLD	
		45224801		OLD	
		45344501		OLD	
		45432301		OLD	
		45432302		OLD	

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Applicant's/Registrant's Name & Address

INMES, LLC
266 Reservation Road, F#202
Marina, CA 93933

Product

INMES S-Metolachlor Technical

Ingredient: S-metolachlor (CAS No. 87392-12-9; Chemical Code: 108800)

875.2200 (cont.)	Soil Residue Dissipation (cont.)	45432303		OLD	
		45469501		OLD	
		45469502		OLD	
		45480301		OLD	
		45480302		OLD	
		45491901		OLD	
		45491902		OLD	
		45491903		OLD	
		45491904		OLD	
		45491905		OLD	
		45530101		OLD	
		45530102		OLD	
		45530103		OLD	
		45574001		OLD	
		45726301		OLD	
		45726302		OLD	
		46040301		OLD	
		46040302		OLD	
		46405901	Agricultural Reentry TF	PAY	
		46513901	Agricultural Reentry TF	PAY	
		46734001	Agricultural Reentry TF	PAY	
		46734002	Agricultural Reentry TF	PAY	
		46789301	Agricultural Reentry TF	PAY	
		46789302	Agricultural Reentry TF	PAY	
		48866801	Agricultural Reentry TF	PAY	

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Applicant's/Registrant's Name & Address INMES, LLC 266 Reservation Road, F#202 Marina, CA 93933	Product INMES S-Metolachlor Technical	
Ingredient: S-metolachlor (CAS No. 87392-12-9; Chemical Code: 108800)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.2200 (cont.)	Soil Residue Dissipation (cont.)	49157401	Agricultural Reentry TF	PAY	
		49157402	Agricultural Reentry TF	PAY	
		49299201	Agricultural Reentry TF	PAY	
		49309201	Agricultural Reentry TF	PAY	
875.2400	Dermal Exposure				See 875.2200
875.2500	Inhalation Exposure				See 875.2200
875.2600	Biological Monitoring				See 875.2200
875.2700	Product Use Information				See 875.2200
875.2800	Descriptions of Human Activity				See 875.2200
875.2900	Data Reporting and Calculations				See 875.2200
875.3000	Nondietary Ingestion Exposure				See 875.2200

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Ingredient: S-metolachlor (CAS No. 87392-12-9; Chemical Code: 108800)

201-1	Droplet Size Spectrum	42565901		OLD	
		42608401		OLD	
		42907401		OLD	
		43254001		OLD	
		43485601		OLD	
		43485602		OLD	
		43485603		OLD	
		43485604		OLD	
		43493801		OLD	
		43493802		OLD	
		43508001		OLD	
		43535801		OLD	
		43535802		OLD	
		43657601		OLD	
		43657602		OLD	
		43665401		OLD	
		43665402		OLD	
		43757801		OLD	
		43757802		OLD	
		43766501		OLD	
		43766502		OLD	
		43766503		OLD	
		43766504		OLD	
		43781101		OLD	

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INMES, LLC
266 Reservation Road, F#202
Marina, CA 93933

Product

INMES S-Metolachlor Technical

Ingredient: S-metolachlor (CAS No. 87392-12-9; Chemical Code: 108800)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
201-1 (cont.)	Droplet Size Spectrum (cont.)	43803501		OLD	
		43832101		OLD	
		43832102		OLD	
		43845501		OLD	
		43845901		OLD	
		43925701		OLD	
		43953001		OLD	
		43953002		OLD	
		44010201		OLD	
		44070001		OLD	
		44100901		OLD	
		44134101		OLD	
		44178701		OLD	
		44310401		OLD	
		44640801		OLD	
		44640901		OLD	
		44641001		OLD	
		44696901		OLD	
		44747401		OLD	
		44763001		OLD	
		44878601		OLD	
		44908901		OLD	
		45536001		OLD	

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INMES, LLC
266 Reservation Road, F#202
Marina, CA 93933

Product

INMES S-Metolachlor Technical

Ingredient: S-metolachlor (CAS No. 87392-12-9; Chemical Code: 108800)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
202-1	Droplet Size Spectrum				See 201-1
850.4100	Tier 1: Seedling Emergence	43928932 44929513 44931718 49930012 50194202 50194203	Syngenta Crop Protection, LLC Syngenta Crop Protection, LLC Syngenta Crop Protection, LLC	OLD OLD OLD PAY PAY PAY	See endnote ⁴¹
850.4150	Tier 1: Vegetative Vigor	43928933 44931718 44929513 49930013	Syngenta Crop Protection, LLC	OLD OLD OLD PAY	See endnote ⁴²
850.4400, 850.4500	Tier 1: Aquatic Plant Growth	43487105 43928929 43928930 44929514 44929515 44931719 44931720 46829509	Syngenta Crop Protection, LLC	OLD OLD OLD OLD OLD OLD OLD PAY	See endnote ⁴³

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Ingredient: S-metolachlor (CAS No. 87392-12-9; Chemical Code: 108800)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.4100	Tier 2: Seedling Emergence	43928932 44929513 44931718 49930012 50194202 50194203	Syngenta Crop Protection, LLC Syngenta Crop Protection, LLC Syngenta Crop Protection, LLC	OLD OLD OLD PAY PAY PAY	See endnote ⁴⁴
850.4150	Tier 2: Vegetative Vigor	43928933 44931718 44929513 49930013	Syngenta Crop Protection, LLC	OLD OLD OLD PAY	See endnote ⁴⁵
850.4400, 850.4500	Tier 2: Aquatic Plant Growth	43487105 43928929 43928930 44929514 44929515 44931719 44931720 46829509	Syngenta Crop Protection, LLC	OLD OLD OLD OLD OLD OLD OLD PAY	See endnote ⁴⁶
850.4300	Terrestrial Field				Not required
850.4450	Aquatic Field				Not required
850.4025	Target Area Phytotoxicity				Not required

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Ingredient: S-metolachlor (CAS No. 87392-12-9; Chemical Code: 108800)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.4550	Cyanobacteria Toxicity	46829510	Syngenta Crop Protection, LLC	PAY	See endnote ⁴⁷
835.2120	Hydrolysis	40430201		OLD	See endnote ⁴⁸
835.2240	Photodegradation in Water	40430202		OLD	See endnote ⁴⁹
835.2410	Photodegradation in Soil	43928935		OLD	See endnote ⁵⁰
835.2370	Photodegradation in Air				Not required
835.4100	Aerobic Soil Metabolism	41309801 43928936 45499606 49930005 49930006 49930007	Syngenta Crop Protection, LLC Syngenta Crop Protection, LLC Syngenta Crop Protection, LLC	OLD OLD OLD PAY PAY PAY	See endnote ⁵¹
835.4200	Anaerobic Soil Metabolism	41309801 49930007	Syngenta Crop Protection, LLC	OLD PAY	See endnote ⁵²
835.4300	Aerobic Aquatic Metabolism	41185701 49930008 49930010 49930011	Syngenta Crop Protection, LLC Syngenta Crop Protection, LLC Syngenta Crop Protection, LLC	OLD PAY PAY PAY	See endnote ⁵³
835.4400	Anaerobic Aquatic Metabolism	41185701 49930009 49930011	Syngenta Crop Protection, LLC Syngenta Crop Protection, LLC	OLD PAY PAY	See endnote ⁵⁴

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Ingredient: S-metolachlor (CAS No. 87392-12-9; Chemical Code: 108800)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
835.1230, 835.1240	Leaching/Adsorption/Desorption	40494602 40494603 40494604 40494605 43928937		OLD OLD OLD OLD OLD	See endnote ⁵⁵
835.1410	Volatility – Laboratory	40494606		OLD	See endnote ⁵⁶
835.8100	Volatility – Field				Not required
835.6100	Soil Field Dissipation Study	41309802 41309803 41309804 41309805 41335701 41335702 41484201 41484202 41484203 41484204 41484205 41484206 45848001		OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD	See endnote ⁵⁷
835.6200	Aquatic Sediment Field Dissipation Study				Not required

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Ingredient: S-metolachlor (CAS No. 87392-12-9; Chemical Code: 108800)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
835.6300	Forest Field Dissipation Study				Not required
835.6400	Combination and Tank Mixes				Not required
835.7100	Ground Water Monitoring	45533101		OLD	
850.6100	Environmental Chemistry Methods	45499611 45499612		OLD OLD GAP	See endnote ⁵⁸

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Ingredient: S-metolachlor (CAS No. 87392-12-9; Chemical Code: 108800)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1300	Nature of the Residue: Plants	00015423		OLD	
		00015424		OLD	
		00015652		OLD	
		00015653		OLD	
		00022872		OLD	
		00022873		OLD	
		00022874		OLD	
		00074898		OLD	
		00074899		OLD	
		00074900		OLD	
		40766601		OLD	
		42644301		OLD	
		42652101		OLD	
		45499609		OLD	
		45499610		OLD	
860.1300	Nature of the Residue: Livestock	00022885		OLD	
		00022886		OLD	
		00022887		OLD	
		00039181		OLD	
		45499607		OLD	
		45499608		OLD	

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Ingredient: S-metolachlor (CAS No. 87392-12-9; Chemical Code: 108800)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1850	Confined Rotational Crops	00022879		OLD	
		00022880		OLD	
		45672302		OLD	
860.1340	Residue Analytical Methods	00015432		OLD	
		00015466		OLD	
		00015543		OLD	
		00015698		OLD	
		00039176		OLD	
		00039182		OLD	
		43928939		OLD	
		46046506		OLD	
860.1380	Storage Stability	00015469		OLD	
		40980702		OLD	
		40980703		OLD	
		41425502		OLD	
		41506401		OLD	
		42384401		OLD	
		42502901		OLD	
		42810601		OLD	
		43881703		OLD	
		43944601		OLD	

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Ingredient: S-metolachlor (CAS No. 87392-12-9; Chemical Code: 108800)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: root and tuber vegetables, crop subgroup 1B and 1C	00105957 00106191 00109613 40980704 46046504 47829408	IR-4	OLD OLD OLD OLD OLD PL	
860.1500	Magnitude of the Residue in Plants: beet, garden, leaves	46046504		OLD	
860.1500	Magnitude of the Residue in Plants: buffalograss	42885701 44470101		OLD OLD	
860.1500	Magnitude of the Residue in Plants: Brassica head and stem vegetables, crop subgroup 5A	40644901 46046505		OLD OLD	
860.1500	Magnitude of the Residue in Plants: Brassica leafy greens, crop subgroup 5B	47829406	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: leafy petioles, crop subgroup 4B plus rhubarb	41551201		OLD	
860.1500	Magnitude of the Residue in Plants: cilantro/coriander	48536501	IR-4	PL	

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INMES, LLC
266 Reservation Road, F#202
Marina, CA 93933

Product

INMES S-Metolachlor Technical

Ingredient: S-metolachlor (CAS No. 87392-12-9; Chemical Code: 108800)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: corn	00015428		OLD	
		00015430		OLD	
		00015570		OLD	
		00015571		OLD	
		00015572		OLD	
		00015586		OLD	
		00015596		OLD	
		00015603		OLD	
		00015676-		OLD	
		00015694			
		00015704		OLD	
		00015705		OLD	
		00015707		OLD	
		00015954		OLD	
		00016392-		OLD	
		00016399			
		00016435-		OLD	
		00016438			
		40980705		OLD	
		43178401		OLD	
		43725502		OLD	
		43928940		OLD	
		43928942		OLD	
		46829504	Syngenta Crop Protection, LLC	PAY	
		48932501	Syngenta Crop Protection, LLC	PAY	

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Name and Title

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DATA MATRIX

Date Feb. 11, 2019	EPA Reg No./File Symbol 94145-	Page 27 of 35
Applicant's/Registrant's Name & Address INMES, LLC 266 Reservation Road, F#202 Marina, CA 93933	Product INMES S-Metolachlor Technical	
Ingredient: S-metolachlor (CAS No. 87392-12-9; Chemical Code: 108800)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: cotton	00065048 40980707 43178403 43661201 44667401 49186501	Syngenta Crop Protection, LLC	OLD OLD OLD OLD OLD PAY	
860.1500	Magnitude of the Residue in Plants: cucurbit vegetables, crop group 9	46707501 47829402 47829407 49191002 49191003	IR-4 IR-4 IR-4 IR-4 IR-4	PL PL PL PL PL	
860.1500	Magnitude of the Residue in Plants: fruiting vegetables, crop group 8-10	00150180 40557301 40899301 41164401 44056101 46046501 48048801	Syngenta Crop Protection, LLC	OLD OLD OLD OLD OLD OLD PAY	
860.1500	Magnitude of the Residue in Plants: grasses grown for seed	42885701 44470101		OLD OLD	

Signature 	Name and Title Ann M. Tillman, PhD Agent	Date Feb. 11, 2019
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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: Guymon bermudagrass for seed production	42885701 44470101		OLD OLD	
860.1500	Magnitude of the Residue in Plants: head lettuce	49191005	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: leaf lettuce	49191004	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: caneberry, crop subgroup 13-07A	47829403	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: bushberry, crop subgroup 13-07B	47829404	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: low-growing, crop subgroup 13-07G, except cranberry	49191001	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: meadowfoam grown for seed	47829401	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: onion, bulb, crop subgroup 3-07A	43000101 46046503		OLD OLD	
860.1500	Magnitude of the Residue in Plants: onion, green, crop subgroup 3-07B	45544701 46046503		OLD OLD	
860.1500	Magnitude of the Residue in Plants: peaches	00131376		OLD	

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: peanuts	00015553		OLD	
		00015555		OLD	
		00015556		OLD	
		40980708		OLD	
		43263101		OLD	
		43725501		OLD	
		43881701		OLD	
		44755401		OLD	
860.1500	Magnitude of the Residue in Plants: radishes grown for seed (excluding daikon)	46046504		OLD	
860.1500	Magnitude of the Residue in Plants: safflower	43881702		OLD	

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Ingredient: S-metolachlor (CAS No. 87392-12-9; Chemical Code: 108800)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: sorghum (sweet, grain or forage)	00015548 00015549 00015550 00015551 00016607 00016990 00016991 00016992 00111693 46829503 47304701 47829405	 Syngenta Crop Protection, LLC Syngenta Crop Protection, LLC IR-4	OLD OLD OLD OLD OLD OLD OLD OLD OLD PAY PAY PL	
860.1500	Magnitude of the Residue in Plants: sugar beets	44805102		OLD	
860.1500	Magnitude of the Residue in Plants: sugarcane	49979201	Syngenta Crop Protection, LLC	PAY	
860.1500	Magnitude of the Residue in Plants: sunflowers, crop subgroup 20B	00041280 44805101		OLD OLD	
860.1500	Magnitude of the Residue in Plants: asparagus	44908701		OLD	
860.1500	Magnitude of the Residue in Plants: sesame	47829401	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: spinach	46046502		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: soybeans	40980706 46829502	 Syngenta Crop Protection, LLC	OLD PAY	

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Ingredient: S-metolachlor (CAS No. 87392-12-9; Chemical Code: 108800)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1520	Magnitude of the Residue in Processed Food or Feed: potato	40980704		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: cilantro/coriander	48536501	IR-4	PL	
860.1520	Magnitude of the Residue in Processed Food or Feed: corn	40980705 46829504	Syngenta Crop Protection, LLC	OLD PAY	
860.1520	Magnitude of the Residue in Processed Food or Feed: cotton	40980707 43661201 44667401 49186501	Syngenta Crop Protection, LLC	OLD OLD OLD PAY	
860.1520	Magnitude of the Residue in Processed Food or Feed: tomatoes	41164401 44056101 48048801	Syngenta Crop Protection, LLC	OLD OLD PAY	
860.1520	Magnitude of the Residue in Processed Food or Feed: peanuts	40980708		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: safflower	43881702		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: sorghum	00111693 46829503	Syngenta Crop Protection, LLC	OLD PAY	
860.1520	Magnitude of the Residue in Processed Food or Feed: sugar beets	44805102		OLD	

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Ingredient: S-metolachlor (CAS No. 87392-12-9; Chemical Code: 108800)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1520	Magnitude of the Residue in Processed Food or Feed: sugarcane	49979201	Syngenta Crop Protection, LLC	PAY	
860.1520	Magnitude of the Residue in Processed Food or Feed: sunflowers	00041280 44805101		OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: sesame	47829401	IR-4	PL	
860.1480	Magnitude of the Residue in Meat, Milk, Poultry, and Eggs	00015413 00015695 00015696 00015697		OLD OLD OLD OLD	
860.1400	Nature and Magnitude of the Residue in Potable Water				Not required
860.1400	Magnitude of the Residue in Fish				Not required
860.1400	Magnitude of the Residue in Plants Resulting from the Use of Irrigation Water				Not required
860.1460	Magnitude of the Residue in Food Handling Establishments				Not required
860.1900	Field Rotational Crops	41164401 43367101 47121701 47121702	Syngenta Crop Protection, LLC Syngenta Crop Protection, LLC	OLD OLD PAY PAY	

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Endnotes for Data Matrix for INMES S-Metolachlor Technical

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- ¹ **830.1650** – This guideline is not required to support a registration of a technical product. Refer to guideline 830.1620.
- ² **830.6316** - INMES, LLC requests a waiver from this data requirement because S-metolachlor does not have the chemical bonds or functional groups associated with explosive chemicals.
- ³ **830.6319** - This data requirement is required when the product is an emulsifiable liquid and is diluted with petroleum solvents. INMES S-Metolachlor Technical is not an emulsifiable liquid to be diluted with petroleum solvents and therefore this data requirement is not applicable.
- ⁴ **830.7370** - INMES, LLC is seeking a waiver for this data requirement for INMES S-Metolachlor Technical because S-metolachlor does not have any functional groups that would dissociate.
- ⁵ **830.7520** - INMES, LLC is seeking a waiver for this data requirement for INMES S-Metolachlor Technical because the product is not a fibrous material and is not water insoluble.
- ⁶ **870.1100** – The study cited is acceptable and satisfies the data requirement as per the Nov. 19, 2014 Metolachlor and S-Metolachlor Human Health Scoping Document in Support of Registration Review (DP Barcode 420468) (Scoping Document).
- ⁷ **870.1200** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- ⁸ **870.1300** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- ⁹ **870.2400** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- ¹⁰ **870.2500** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- ¹¹ **870.2600** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- ¹² **850.2100** – MRID Numbers 43928906 and 43928907 are acceptable and satisfy the data requirement as per the Dec. 3, 2014 Registration Review Problem Formulation for Metolachlor and S-Metolachlor (DP Barcode 420467) (Problem Formulation), but passerine data were required. It appears passerine data were submitted under MRID 50531502.
- ¹³ **850.2200** – The studies cited are acceptable and satisfy the data requirement as per the Problem Formulation.
- ¹⁴ **850.2300** – The studies cited are acceptable and satisfy the data requirement as per the Problem Formulation.
- ¹⁵ **850.1075** – The studies cited are acceptable or supplemental but satisfy the data requirement as per the Problem Formulation.
- ¹⁶ **850.1010** – The studies cited are acceptable or supplemental but satisfy the data requirement as per the Problem Formulation.
- ¹⁷ **850.1025, 850.1035, 850.1045, 850.1055, 850.1075** – The studies cited are acceptable and satisfy the data requirement as per the Problem Formulation. Note: MRID 43487102 appears to have been incorrectly listed as MRID 42378901 in the Problem Formulation.
- ¹⁸ **850.1300** – The study cited is acceptable and satisfies the data requirement as per the Problem Formulation.
- ¹⁹ **850.1350** – The study cited is acceptable and satisfies the data requirement as per the Problem Formulation.
- ²⁰ **850.1400** – The study cited is acceptable and satisfies the data requirement as per the Problem Formulation.

Endnotes for Data Matrix for INMES S-Metolachlor Technical

- ²¹ **850.1400** – The study cited is acceptable and satisfies the data requirement as per the Problem Formulation.
- ²² **850.1710, 850.1730, 850.1850** – The study cited is acceptable and satisfies the data requirement as per the Problem Formulation.
- ²³ **N/A** – The study cited appears to have been submitted in response to data gaps identified in the Problem Formulation.
- ²⁴ **850.3020** – The study cited is acceptable and satisfies the data requirement as per the Problem Formulation.
- ²⁵ **OECD 213** – The study cited is acceptable and satisfies the data requirement as per the Problem Formulation.
- ²⁶ **870.6200** – These data are not required as per the Scoping Document.
- ²⁷ **870.3100** – The study is acceptable and satisfies the data requirement as per the Scoping Document; unacceptable data were not cited.
- ²⁸ **870.3150** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- ²⁹ **870.3200** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- ³⁰ **870.6200** – These data are not required as per the Scoping Document.
- ³¹ **870.4100** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- ³² **870.4200** – The studies cited are acceptable and satisfy the data requirement as per the Scoping Document.
- ³³ **870.3700** – The studies cited are acceptable and satisfy the data requirement as per the Scoping Document.
- ³⁴ **870.3800** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- ³⁵ **870.5100** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- ³⁶ **870.5300, 870.5375** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- ³⁷ **870.5385, 870.5395, 870.5450, 870.5550** – The studies cited are acceptable and satisfy the data requirement as per the Scoping Document.
- ³⁸ **870.7485** – The studies cited are acceptable and satisfy the data requirement as per the Scoping Document.
- ³⁹ **870.7800** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.
- ⁴⁰ **875.2100** – This data requirement is waived as per the Scoping Document.
- ⁴¹ **850.4100** – MRID Numbers 43928932, 44931718 and 44929513 are supplemental and additional data were required to be submitted per the Feb. 25, 2016 Registration Review Data Call-In (DCI) and Problem Formulation. It appears these data were submitted under MRID Numbers 49930012, 50124202, and 50124203 and are cited.
- ⁴² **850.4150** – MRID Numbers 43928933, 44931718 and 44929513 are supplemental and additional data were required to be submitted per the DCI and Problem Formulation. It appears these data were submitted under MRID Number 49930013.

Endnotes for Data Matrix for INMES S-Metolachlor Technical

- ⁴³ **850.4400, 850.4500** – The studies cited are acceptable or supplemental but satisfy the data requirement as per the Problem Formulation.
- ⁴⁴ **850.4100** – MRID Numbers 43928932, 44931718 and 44929513 are supplemental and additional data were required to be submitted per the Feb. 25, 2016 Registration Review Data Call-In (DCI) and Problem Formulation. It appears these data were submitted under MRID Numbers 49930012, 50124202, and 50124203 and are cited.
- ⁴⁵ **850.4150** – MRID Numbers 43928933, 44931718 and 44929513 are supplemental and additional data were required to be submitted per the DCI and Problem Formulation. It appears these data were submitted under MRID Number 49930013.
- ⁴⁶ **850.4400, 850.4500** – The studies cited are acceptable or supplemental but satisfy the data requirement as per the Problem Formulation.
- ⁴⁷ **850.4550** – The study cited is acceptable and satisfies the data requirement as per the Problem Formulation.
- ⁴⁸ **835.2120** – The study cited is acceptable and satisfies the data requirement as per the Problem Formulation.
- ⁴⁹ **835.2240** – The study cited is acceptable and satisfies the data requirement as per the Problem Formulation.
- ⁵⁰ **835.2410** – The study cited is supplemental but satisfies the data requirement as per the Problem Formulation.
- ⁵¹ **835.4100** – MRID Numbers 41309801, 43928936, 45499606 are acceptable or supplemental and additional data were required as per the Problem Formulation. It appears MRID Numbers 49930005-07 were submitted to satisfy the data gap.
- ⁵² **835.4200** – MRID Number 41309801 is acceptable but additional data were required as per the Problem Formulation. It appears MRID Number 49930007 was submitted to satisfy the data gap.
- ⁵³ **835.4300** – MRID Number 41185701 is acceptable but additional data were required as per the Problem Formulation. It appears MRID Numbers 49930008, 49930010 and 49930011 were submitted to satisfy the data gap.
- ⁵⁴ **835.4400** – MRID Number 41185701 is acceptable but additional data were required as per the Problem Formulation. It appears MRID Numbers 49930009 and 49930011 were submitted to satisfy the data gap.
- ⁵⁵ **835.1230, 835.1240** – The studies cited are acceptable and satisfy the data requirement as per the Problem Formulation.
- ⁵⁶ **835.1410** – The study cited is acceptable and satisfies the data requirement as per the Problem Formulation.
- ⁵⁷ **835.6100** – The studies cited are acceptable or supplemental but no additional data were required as per the Problem Formulation.
- ⁵⁸ **850.6100** – MRID numbers 45499611 and 45499612 are supplemental and additional data were required as per the Problem Formulation. INMES, LLC will make an offer to cost share for the development of these data after the registration is approved.